

**NOVEL POLYPEPTIDES, THEIR NUCLEIC ACIDS, AND METHODS FOR THEIR USE IN
ANGIOGENESIS AND VASCULARIZATION**

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Abstract of the Disclosure

The present invention is directed to novel polypeptides critical for angiogenesis and vascularization, and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention. Compositions and methods are disclosed for stimulating or inhibiting angiogenesis and or neo- or cardio-vascularization in mammals, including humans. Pharmaceutical compositions are based on polypeptides or antagonists thereto that have been identified for one or more of these uses. Disorders that can be diagnosed, prevented, or treated by the compositions herein include trauma such as wounds, various cancers, and disorders of the vessels including atherosclerosis.